***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW28/HW28: Angle-Side-Angle

**Geometry**

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| **1.** Determine if the two triangles are congruent. If so write a congruency statement including how you know that statement is true. Identify what postulate is needed to prove congruency. | 2. Determine if the two triangles are congruent. If so write a congruency statement including how you know that statement is true. Identify what postulate is needed to prove congruency. |
| 3. **Given:** CF bisects ∠*ACE* and ∠*BFD*  **Prove:**Δ*CBF* ≅ Δ*CDF* | 4. Draw and label two triangles that **CAN NOT** be proven congruent using the Angle-Side-Angle (ASA) Postulate. Explain why ASA can not be used. |
| **For numbers 1 through 9, tell if the triangles are congruent. If so, identify the postulate used to prove congruency. You only know the following postulates SSS, SAS, and ASA.** | |

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| Criteria for Success: Did you…   * Annotate each figure * Identify corresponding, congruent angles and sides * Provide reasoning justifying your congruency statement. * Write congruency statements using mathematical symbols * Write at least 2 sentences explaining your reasoning | | | |
| 1) **Given**  **Prove** ∆*MKL* ≅∆*TVL* | **Given**  **Prove** ∆*QRS* ≅∆*ESR* | | 3) **Given**  **Prove** ∆*LMN* ≅∆*NTL* |
| Side-Side-Side Criteria in the Coordinate Plane | | | |
| Determine if . Justify your claim using mathematical evidence and reasoning.   **http://www.ck12.org/flx/show/image/201412231419361428099072_df550c86ee89c32ac5cb0b53bd3e9e75-201412231419362698920511.png** | | Determine if the two triangles are congruent. Then determine what transformation took place. **http://www.ck12.org/flx/show/image/201412231419361428855564_ff81f7972a492d48521bbe36f604f1b7-201412231419362711477025.png** | |
| 7. Pick ONE of the triangle in the two problems above. Create an equation for each of the lines for that one triangle. Show your work! | | | |